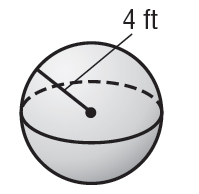
**Lesson 3 Reteach**

***Volume of Spheres***

|  |
| --- |
| A **sphere** is a set of all points in space that are a given distance from a given point.  The volume *V* of a sphere with radius *r* is four thirds the product of π and the cube of the radius *r*.  *V* = *πr*3. |

**Example**

**Determine the volume of the sphere. Round to the nearest tenth.**



*V =* π*r*3 Volume of a sphere

*V* = (π • 43) *r* = 4

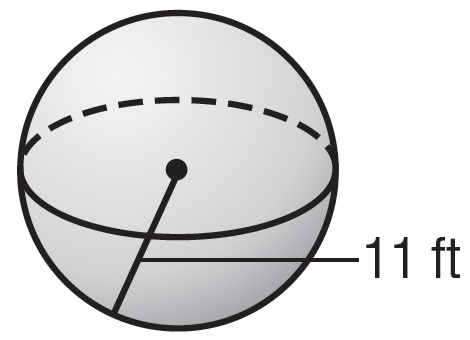
*V* ≈ 268.1 Simplify. Use a calculator.

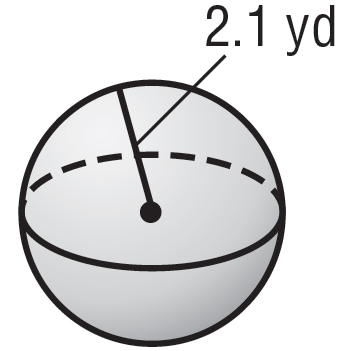
The volume is about 268.1 cubic feet.

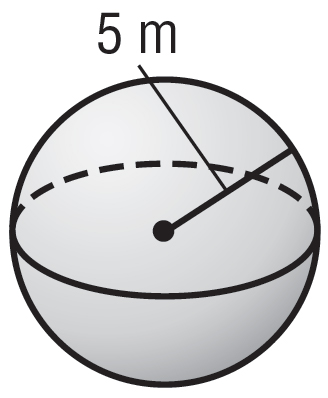
**Exercises**

**Determine the volume of each sphere. Round to the nearest tenth.**

**1. 2. 3.**







**4. 5. 6.**

